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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/669,619	09/24/2003	John Beers	200207357-1	5631
22879	7590	08/02/2005	EXAMINER	
HEWLETT PACKARD COMPANY P O BOX 272400, 3404 E. HARMONY ROAD INTELLECTUAL PROPERTY ADMINISTRATION FORT COLLINS, CO 80527-2400			NGUYEN, MIKE	
			ART UNIT	PAPER NUMBER
			2182	

DATE MAILED: 08/02/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/669,619

Applicant(s)

BEERS ET AL.

Examiner

Mike Nguyen

Art Unit

2182

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 23 December 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 24 September 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

1. Claims 35-42 are pending for the examination.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Barrus (U.S. Pat. No. 6, 192,480 B1).

As to claim 1, Barrus teaches a method for configuring power consumption and performance of a storage device (figs 2 and 3), comprising:

providing an electronic storage device with an operational profile comprising at least two different settings to regulate power consumption and performance of the storage device (~~col. 5~~ lines (col. 4 line 62 to col. 5 line 26);

displaying via a graphical illustration the operational profile and each of the two different settings for power consumption and performance of the storage device (visual interface 50 of fig. 3 and col. 5 lines 51-65); and

selecting one of the two different settings to configure power consumption and performance of the storage device (col. 5 line 51 to col. 6 line 35).

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As to claim 2, Barrus teaches the method of claim 1 further comprising selecting a first one of the two setting to increase performance of the storage device and to increase power consumption of the electronic device (col. 6 lines 7-35).

As to claim 3, Barrus teaches the method of claim 1 further comprising selecting a second one of the two settings to decrease performance of the storage device and to decrease power consumption of the electronic device (col. 6 lines 7-35).

As to claim 4, Barrus teaches the method of claim 1 wherein displaying via a graphical illustration comprises showing a tradeoff between performance and power consumption for the storage device (fig. 3).

As to claim 5, Barrus teaches the method of claim 4 wherein displaying via a graphical illustration comprises presetting bar charts to show the tradeoff between performance and power consumption (col. 6 lines 31-32).

As to claim 6, Barrus teaches the method of claim 1 further comprising:
providing the storage device with the operational profile comprising three different settings to regulate power consumption and performance of the storage device, wherein a first setting has a low power consumption and a low performance, a second setting has a medium power consumption and a medium performance, and a third setting has a high power consumption and a high performance (fig. 3 and col. 6 lines 7-16 wherein if a user adjusts the

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position of the hand 62 to different positions on the dials 52; such as low, medium or high position, the performance of the hardware device and the rate of the battery will increase or decrease according to the positions on the dials 52); and

displaying via the graphical illustration the operation profile and each of the three different settings for power consumption and performance of the storage device (figs 3).

As to claim 7, Barrus teaches the method of claim 1 wherein selecting one of the two settings comprises enabling a user to enter an input to the storage device to configure the storage device to one of the two settings and alter power consumption and performance of the storage device (col. 5 lines 52-65).

As to claim 8, Barrus teaches the method of claim 7 further comprising enabling the user to enter the input directly via a user interface and to save the operational profile to one of the two settings (a visual interface 50 of fig. 3).

As to claim 9, Barrus teaches a system for configuring power and performance of a storage device (figs 2 and 3), comprising:

a storage device to be configured (memory 34 of fig. 2); and

a budget configuration tool (power management utility process 42 of fig. 2) coupled to the storage device wherein the budget configuration tool configures the power and performance of the storage device by setting device parameters associated with the storage device based on desired operation as selected by a user (col. 5 line 51 to col. 6 line 35).

As to claim 10, Barrus teaches the system of claim 9 wherein the user selects the desired operation in terms of a power and performance tradeoff (col. 7 line 56 to col. 8 line 10).

As to claim 11, Barrus teaches the system of claim 9 further comprising a configuration file (application requirements 40 of fig. 2) that can be accessed by the budget configuration tool, wherein the configuration file comprises information regarding device parameters associated with the storage device and an effect of setting the device parameters on the power and performance of the storage device (col. 4 line 62 to col. 5 line 26).

As to claim 12, Barrus teaches the system of claim 9 further comprises at least one operation profile (drive powerdown time, display brightness, or cpu speed 52 of fig. 3) that can be accessed by the budget configuration tool, each operation profile corresponding to an operating mode of the storage device (col. 5 line 66 to col. 6 line 3).

As to claim 13, Barrus teaches the system of claim 9 further comprising a user interface (visual interface 50 of fig. 3) where the user can select the desired operation of the system for use by the budget configuration tool (col. 5 lines 51-65).

As to claim 14, Barrus teaches the system of claim 13 wherein a plurality of operation profiles (drive powerdown time, display brightness, or cpu speed 25 of fig. 3) is presented via the user interface for the user to select the desired operation (col. 5 line 67 to col. 6 line 35).

As to claim 15, Barrus teaches the system of claim 14 wherein the plurality of operation profiles is presented in terms of power and performance tradeoff (col. 5 lines 51-65).

As to claim 16, Barrus teaches the system of claim 13 wherein the user interface presents a graphic illustration of the power and performance tradeoff of the operation selected by the user (col. 5 lines 51-65).

As to claim 17, Barrus teaches the system of claim 16 wherein the user can select the desired operation via the graphic illustration (col. 5 line 51 to col. 6 line 35).

As to claim 18, Barraus teaches a system for configuration power and performance of a storage device (figs 2, 3 and 4), comprising:

means for assisting a user in selecting a desired operation for a storage device based on the power and performance of the storage device (col. 7 lines 32-40); and

means for configuring the storage device for operation as desired by the user (col. 7 line 56 to col. 8 line 30).

As to claim 19, Barrus teaches the system of claim 18 further comprising means for a user to select a desired operating mode for a storage device from a plurality of operating modes for the storage device, wherein a selected operating mode corresponds to a desired operation of a storage device based on power consumption and performance of the storage device (col. 5 line 51 to col. 6 line 35).

As to claim 20, Barrus teaches the system of claim 18 further comprising means for accessing information regarding device parameters associated with the storage device and how to set the device parameters for the desired operation of the storage device (col. 4 line 62 to col. 5 line 26).

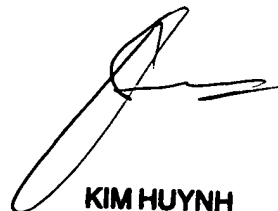
Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mike Nguyen whose telephone number is 571 272-4153. The examiner can normally be reached on 8:00AM-4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dov Popovici can be reached on 571 272-4083. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mike Nguyen
Patent Examiner
Group Art Unit 2182


KIM HUYNH
PRIMARY EXAMINER
7/28/05

07/26/2005